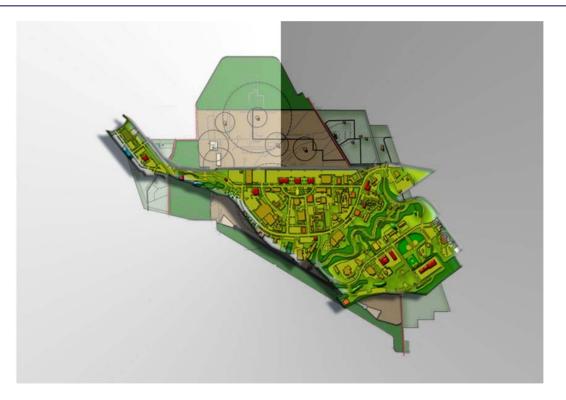


NASA Glenn Research Center (GRC)

Upcoming Architect & Engineering (A-E) Contract Opportunities



Business Opportunity Forum - May 16, 2008

Mark Woodling, Construction of Facilities (CoF) Program Manager, NASA Glenn Research Center (GRC)





Outline

- Some Basics for Our Discussion
- Types of A-E Services Required by GRC
- A-E Skill Sets Required by GRC
- Current Design Focus
- Procurement of A-E Services
- Current & Near-Term Opportunities

NASA

Some Basics for Our Discussion

- NASA Classifies Construction Projects as Follows:
 - Up to \$499K Construction Cost: Locally-Funded
 Projects
 - \$500K to \$4,999K Construction Cost: Minor
 Construction of Facilities (CoF) Projects
 - \$5,000K and Greater Construction Cost:
 Discrete CoF Projects
 - <u>Demolition Projects</u>: Activities that result in a reduction in the Center's Real Property Inventory

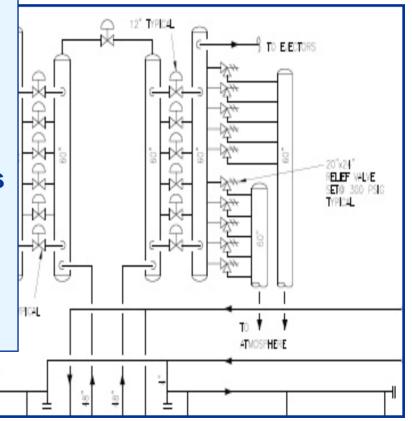


Some Basics for Our Discussion

- Typical Methods for Designing Projects for Construction:
 - Locally Funded Projects: In-house staff (small projects), outside A-E firms (larger projects)
 - Minor CoF Projects: In-house staff (very few), outside A-E firms
 - Discrete CoF Projects: Outside A-E firms
 - <u>Demolition Projects</u>: In-house staff, outside A-E firms



- Engineering Studies & Preliminary Engineering Reports
 - Concept Development
 - Building Programming
 - Identification of Products
 - Potential Vendors, Fabricators
 - Rough Order of Magnitude Cost Estimates for Final Design, Fabrication
 - Rough Design, Construction,
 Fabrication Schedules





- Final Design
 - Field Investigation & Verification
 - Calculations
 - Code Compliance
 - Engineering Cost Estimate
 - Detailed Construction Schedule
 - Deliverables for Invitation for Bid Construction
 - Construction Specifications
 - Construction Drawings (Multi-Discipline including Architectural, Environmental, Civil, Structural, Mechanical, Electrical)



Services During Construction

Submittal & Shop Drawing Review

Field Issue Resolution







A-E Skill Sets Required by GRC



A-E Services for "Bricks & Mortar" and Standard Utility Systems

- Civil Site Work
- Roadway and Parking
- Structural Steel
- Building Architectural
- Roof Replacement & Masonry Repair
- Underground Domestic Water
- Sewer Systems (Sanitary, Storm)
- Underground Natural Gas Systems
- Building HVAC
- Building Plumbing Systems
- Boiler and Steam Distribution
 Systems
- Chillers and Chilled Water
 Distribution Systems
- Fire Suppression Systems

- High voltage Electrical work (Substations, Switchgear, Underground Duct Banks)
- Low Voltage Electrical Power Distribution
- Building Lighting Systems
 - **Fire Detection Systems**
- Emergency & Exit Lighting
- Lightning Protection
 - **Grounding Systems**



A-E Skill Sets Required by GRC





A-E Skill Sets Required by GRC

- A-E Services for the Design of One-of-a-Kind Aero-Space Ground Test Facilities
 - Computational Fluid Dynamic (CFD) Analysis
 - Finite Element Analysis
 - Component Fabrication & Assembly Drawings
 - Large Horsepower Motors
 - Vacuum Systems & Tanks
 - Thermal Simulation Systems



Current Design Focus

- New Building & Existing Building Rehabilitation Emphasis
 - Executive Order EO 13423:
 "Ensure that new construction & major renovation of agency buildings comply with the guiding principles in the Federal Leadership in High Performance and Sustainable Buildings Memorandum of Understanding"
 - NASA Policy: Leadership in Energy & Environmental Design (LEED) Silver Certification for All Projects
- Begin to Employ Building Information Modeling (BIM) Concepts in Designs



Procurement of A-E Services

- How Does NASA Obtain A-E Services?
 - Basic Requirements Identified in the Federal Acquisition Regulation (FAR), Subpart 36.6
 Architect-Engineer Services
 - Selection Criteria:
 - Professional Qualifications
 Specialized Experience & Technical Competence
 Capacity to Accomplish the Work
 Past Performance on Contracts
 Location in the General Geographic Area
 - Format of Evaluation Board, Selection Authority, etc.



Procurement of A-E Services

- How Does NASA Obtain A-E Services?
 - Additional Requirements Found in NASA FAR Supplement, Part 1836.6 Architect-Engineer Services
 - More Specifics on Selection Criteria, Format of Evaluation Boards, Selection Authority, Short Selection Process for Contracts not to Exceed the Simplified Threshold Limit, Selection of A-E for Master Planning, Collection of Data On & Appraising Firms' Qualifications, Forms for Use in Contracting for A-E Services



Procurement of A-E Services



Current & Near-Term Opportunities



- Final Design Services for the NASA GRC Centralized Office Building
 - Currently Advertised on <u>www.fedbizopps.gov</u>
 - Standard Form SF-330 Due on May 20, 2008





Current & Near-Term Opportunities

- Current A-E Services Contracts Expiring
 - Currently Have Access to Three A-E Firms (Indefinite Quantity Contracts)
 - Number of A-E Firms for Follow-on Services TBD
 - Will Require All Skill Sets Mentioned in This Presentation
 - Emphasis on LEED Design Capability
 - Anticipated Date for Advertisement: August or September,
 2008
- Current Master Planning Contract Will Expire October, 2009
 - Anticipated Date for Advertisement: June or July, 20009

Questions & Answers







